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EL SALVADOR

MAP COVERAGE REPORT

121

Secret

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MCR-001/83
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DISSEMINATION CONTROL ABBREVIATIONS

NOFORN -	Not Releasable to Foreign Nationals
NOCONTRACT -	Not Releasable to Contractors or Contractor/Consultants
PROPIN -	Caution-Proprietary Information Involved
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MAP COVERAGE REPORT EL SALVADOR NOVEMBER 1983

INTRODUCTION

This report lists maps covering El Salvador. The maps vary in their content, scale, size, date of production, and publisher. They were selected for inclusion in this document because of their possible utility in the imagery exploitation process. (U)

Most of the maps listed in this publication are produced by the Defense Mapping Agency (DMA) and CIA, and they are available for retention. To order, they should be identified by series and sheet designation or accession number. Some maps are only available on a loan basis; however, xerox or photographic copies can be obtained. When ordering loan maps, the complete call number should be given. (U)

The scale of a map describes the relationship between a distance on the map and the corresponding distance on the ground. Scale is usually expressed as a ratio. Your choice of map scale depends on how you intend to use the map. Scale determines the amount of detail shown on a map. A large-scale map shows more detail but less area, while a small-scale map shows less detail but a larger land area. For example:

Large-scale maps: More detail, less area 1:10,000 – 1:25,000

Medium scale maps: 1:50,000 – 1:250,000

Small scale maps: Less detail, more area 1:500,000 – 1:22,000,000

The terms large and small scale are comparative, rather than absolute, so there are no precise definitions of the boundaries between them. Maps of continental areas and the world are all small in scale, however, and town plans are large scale. (U)

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Base Maps

Base maps are basic outline maps that show major cities, transportation and administrative divisions. They can be valuable tools in preparing briefings and for illustrating reports. (U)

CIA produces the following base maps of El Salvador for retention:

Accession No.	Date	Scale	Size	Classification
504510	1980	1:1,500,000	8 x 10	U
504511(Terrain)	1980	1:1,500,000	8 x 10	U
502469	1976	1:1,300,000	8 x 10	U
504473 (Terrain)	1980	1:750,000	12 x 19	U
504474	1980	1:750,000	17 x 19	U

SECRET**Topographic Maps**

Topographic maps portray the shape and elevation of terrain, usually by contours or color shading. These maps also show major cities, transportation and administrative divisions. (U)

Complete topographic map coverage of El Salvador is available in various large, medium, and small scale series. At some scales, however, it is necessary to combine two or more series in order to compile a set of maps reflecting complete coverage at the latest date available. (U)

1:250,000 Scale Maps

The Defense Mapping Agency (DMA) produces two versions of the 1501-Joint Operations Graphic (JOG) series of El Salvador. Each version is identified in the lower margin of the map as Joint Operations Graphic (Air) or Joint Operations Graphic (Ground). (U)

The JOG-Air series contains detailed information on air-related facilities such as runway lengths and patterns, radio facilities, and obstructions. Terrain elevation in each 15 minute quadrangle is identified by large open-face figures shown in the legend. Elevations and contours are given in feet. (U)

The JOG-Ground series is prepared for use by ground units, and only stable or permanent air facilities are identified. Elevations and contours are located in the same positions as on the air version, but are given in meters. (U)

Foreign-produced maps show detailed topographic information and provide an abundance of place names. These are published by the Instituto Geografico Nacional of El Salvador. The call number for this series is C300-30, 193018. (U)

Sheet Number	DMA Series JOG-Air Date	DMA Series JOG-Ground Date	MSD C300-30, 193018 Foreign Produced Date
ND15-8	1974	1969	1978
ND16-5	NP	1969	1969
ND16-6	1968	1968	NP
ND16-9	1969	1969	1981
ND16-01	1974	1974	NP

NP = Not Produced

1:100,000 Scale Maps

Medium scale coverage is enhanced by the 1:100,000 topographic series published by the Instituto Geografico Nacional of El Salvador. In addition to detailed topographic information, these sheets provide an abundance of place names. The entire country is covered in six sheets. The call number of this series is C308-30, 262250. (U)

Sheet Name	Sheet Number	Date
Santa Ana	I	1974
Chalatenango	II	1976
Jocoaitique	III	1976
San Miguel	IV	1978
San Salvador	V	1976
Sonsonate	VI	1974

SECRET**1:50,000 Scale Maps**

See index on page 5 to identify sheet location within the country. (U)

Sheet Number	Sheet Name	DMA Series-Date	Foreign Produced Date-Call Number
2157-1	Pasaco	E754-1960	1978-C303-30, 129402
2157-2	Garita Chapina	E754-1960	1977-C303-30, 129402
2256-1	Cuisnahaut	E753-1968	1970-C308-30, 50979
2256-4	Acajutla	E753-1969	1970-C308-30, 50979
2257-1	Santa Ana	E753-1982	1971-C308-30, 50979
2257-2	Sonsonate	E753-1981	1971-C308-30, 50979
2257-3	Jujutla	E753-1981	1970-C308-30, 50979
2257-4	Ahuachapan	E753-1964	1977-C303-30, 129402
2258-1	San Antonio Pajonal	E754-1977	1979-C308-30, 50979
2258-2	Candelaria de La Frontera	E753-NP	1977-C303-30, 129402
2258-3	Paso El Jobo	E754-1960	1978-C303-30, 129402
2259-2	El Shiste	E754-1961	1977-C303-30, 129402
2356-1	Olocuilta	E753-1978	1974-C308-30, 50979
2356-2	Rio Jiboa	E753-1981	1972-C308-30, 50979
2356-4	Libertad	E753-1981	1972-C308-30, 50979
2357-1	Suchitoto	E753-1954	1973-C308-30, 50979
2357-2	San Salvador	E753-1981	1975-C308-30, 50979
2357-3	Nueva San Salvador	E753-1981	1972-C308-30, 50979
2357-4	Opico	E753-1978	1971-C308-30, 50979
2358-1	Te Jutla	E753-NP	1970-C304-30, 188946
2358-2	El Paraiso	E753-1954	1973-C308-30, 50979
2358-3	Nueva Concepcion	E753-1954	1973-C308-30, 50979
2358-4	Masahuat	E753-1968	1978-C308-30, 50979
2359-2	San Ignacio	E753-1965	1971-C304-30, 188946
2359-3	Metapan	E753-1965	1974-C303-30, 132724
2455-1	Jiquilisco	E753-1965	1958-C308-30, 50979
2455-4	Del Rio Lempa	E753-1966	1973-C308-30, 50979
2456-1	Puente Cuscatlan	E753-1965	1974-C308-30, 50979
2456-2	Berlin	E753-1965	1974-C308-30, 50979
2456-3	La Herradura	E753-1965	1974-C308-30, 50979
2456-4	San Vicent	E753-1965	1974-C308-30, 50979
2457-1	Sensuntepeque	E753-NP	1970-C304-30, 188946
2457-2	Rio Tithuapa	E753-1965	1976-C308-30, 50979
2457-3	Cojutepeque	E753-1965	1975-C308-30, 50979
2457-4	Ilobasco	E753-1965	1975-C308-30, 50979
2458-1	San Andres	E752-1970	1972-C304-30, 188946
2458-2	Arcatao	E753-NP	1971-C304-30, 188946
2458-3	Chalatenago	E753-1965	1970-C304-30, 188946
2458-4	Rio Sumpal	E752-1969	1970-C308-30, 50979
2555-1	Olomega	E753-1965	1976-C308-30, 50979

NP = Not Produced

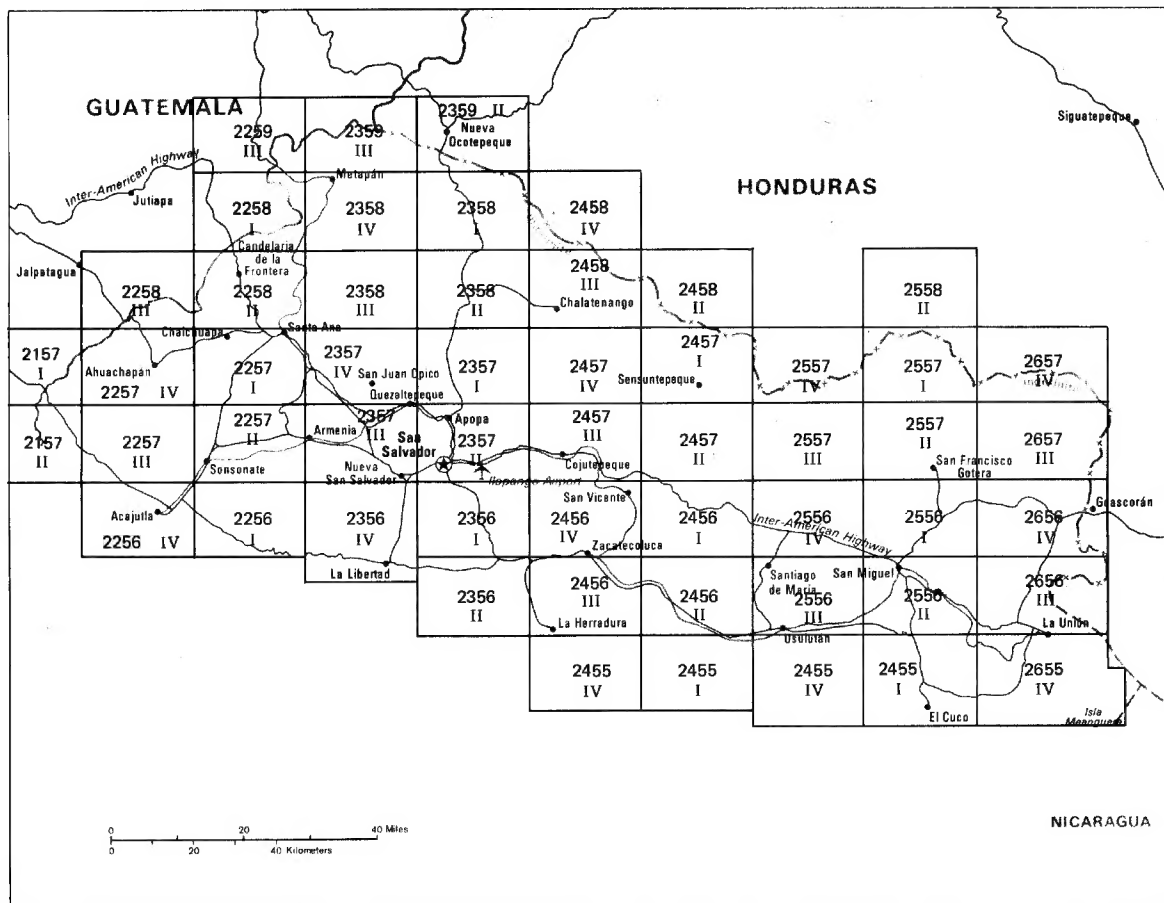
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Sheet Number	Sheet Name	DMA Series-Date	Foreign Produced Date-Call Number
2555-4	Jucuaran	E753-1965	1977-C308-30, 50979
2556-1	Jocoro	E753-1965	1977-C308-30, 50979
2556-2	San Miguel	E753-1965	1976-C308-30, 50979
2556-3	Usulután	E753-1965	1976-C308-30, 50979
2556-4	De La Esperanza	E753-1965	1976-C308-30, 50979
2557-1	Jocoaitique	E753-NP	1969-C308-30, 50979
2557-2	Gotera	E753-1965	1977-C308-30, 50979
2557-3	Sesori	E753-1965	1977-C308-30, 50979
2557-4	Carolina	E753-NP	1970-C304-30, 188946
2558-2	Sabanetas	E752-NP	1970-C304-30, 188946
2655-1	Amapala	E752-1972	1969-C304-30, 188946
2655-4	Conchagua	E753-1949	1977-C308-30, 50979
2656-1	Langue	E752-1964	1964-C304-30, 188946
2656-2	Bahia Chismuyo	E752-1969	1957-C304-30, 88946
2656-3	La Union	E753-1967	1975-C308-30, 50979
2656-4	Santa Rosa de Lima	E753-NP	1978-C308-30, 50979
2657-1	Del Norte	E752-NP	1971-C304-30, 188946
2657-2	Aramecina	E752-NP	1972-C304-30, 188946
2657-3	Nueva Esparta	E753-1973	1974-C304-30, 188946
2657-4	Monteca	E752-NP	1970-C304-30, 188946

NP = Not Produced

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INDEX TO 1:50,000 SCALE TOPOGRAPHIC MAPS



SECRET**1:25,000 Scale Maps**

Large-scale coverage of the country is available at 1:25,000 covering an area around Acajutla in 3 sheets and an area around San Salvador spreading east and south in 28 sheets. This series is also published by the Instituto Geografico Nacional of El Salvador. The call number for this series is C308-30, 271840. (U)

Sheet Number	Sheet Name	Date
2256-I -NW	Rio Tazula	1982
2256-I -NE	Cuisnahuat	1983
2256-I -SW	Rio Banderas	1982
2256-I -SE	Jicalapa	1983
2256-IV -NW	Metalio	1981
2256-IV -NE	Acajutla	1981
2256-IV -SE	Puerto de Acajutla	1981
2257-I -NW	Chalchuapa	1982
2257-I -NE	Santa Ana	1979
2257-I -SW	Juayua	1982
2257-I -SE	Lago de Coatepeque	1982
2257-II -NW	Nahuizalco	1982
2257-II -NE	San Isidro	1982
2257-II -SW	Sonsonate	1982
2257-II -SE	San Julian	1982
2257-III -SE	Santo Domingo de Guzman	1982
2356-I -NW	Panchimalco	1980
2356-I -NE	San Miguel Tepezontes	1980
2356-I -SW	Rosario Demora	1980
2356-I -SE	San Pedro Masahuat	1980
2356-II -NW	Amatecampo	1979
2356-II -NE	Aeropuerto Internacional El Salvador	1979
2356-II -SE	Las Isletas	1979
2356-III -NE	Puerto de Libertad	1981
2356-IV -NE	Zaragoza	1981
2356-IV -SW	Rio El Sunzal	1983
2356-IV -SE	San Jose Villanueva	1981
2357-II -NW	Apopa	1981
2357-II -NE	Tonacatepeque	1981
2357-II -SE	Ilopango	1981
2357-III -NW	Zapotitan	1979
2357-III -NE	Quezaltepeque	1979
2357-III -SW	Tepecoyo	1980
2357-III -SE	Nueva San Salvador	1979
2357-IV -NE	San Pablo Tacachico	1980
2357-IV -SW	Ciudad Arce	1979
2357-IV -SE	San Juan Opico	1980
2456-III -NW	San Rafael	1979
2456-III -NE	Entre Rios	1979
2456-III -SW	La Herradura	1979

SECRET**Aeronautical Maps**

These maps have special overprints and intelligence to monitor international air/ground tactical operations, operational planning, and training. They are essential to aerospace navigation of high-performance weapon systems. Other uses include visual and radio navigation, monitoring radio emissions and other electronic devices, plotting, mission planning and intelligence briefings. (U)

DMA

Series	Sheet No.	Scale	Date	Classification
GNC	9	1:5,000,000	1977	U
JNC	61	1:2,000,000	1976	U
ONC	K25	1:1,000,000	1978	U
TPC	K25A	1:500,000	1982	U

Foreign-Produced

Title	Call Number	Scale	Date	Classification
Carta Aeronautica Republica de El Salvador	C308-2, 266395	1:500,000	1978	U
Aeropuerto Internacional de San Salvador En Ilopango	C308-2, 146374	1:150,000	1962	C-NF

Thematic Maps

Thematic maps have a special-purpose and usually emphasize a single topic. Their titles usually identify the topic(s) presented. (U)

Atlases

Title	Call Number	Scale	Date	Classification
Atlas de El Salvador	C308-10, PO276222	NS	1979	U

Physical

Title	Call Number	Scale	Date	Classification
Drainage Characteristics	C308-22, C21751	1:675,000	1960	C-NF
Surface Water Resources	C308-34, C21752	1:675,000	1960	C-NF
Soils	C308-22.5, C21753	1:675,000	1960	C-NF
Vegetation	C308-33, C21754	1:675,000	1960	C-NF
Carta Magnetometrica Lecturas de Intensidad Total (Sin Correcciones)	C308-22, 285631	1:300,000	1981	U

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	<u>Military</u>				
Title	Call Number	Scale	Date	Classification	
Military Geographic Region	C308-16, C21797	1:700,000	1960	C-NF	
Strategic Area, Approaches, and Internal Routes	C308-16, C21985	1:700,000	1960	C-NF	
Suitability for Underground Installations	C308-22, C20370	1:685,000	1960	C-NF	
Cross-Country Movement Conditions (Tracked Vehicle)	C308-22 C21755	1:675,000	1960	C-NF	
Suitability for Airfields	C308-22, C21756	1:675,000	1960	C-NF	

Petroleum Resources

Title	Call Number	Scale	Date	Classification	
Petrolero de Latinoamerica	C000-20, 283402	N/S	1982	U	
El Salvador Synopsis 1979	C308-20, 274353	1:500,000	1980	U	

Geology

Title	Call Number	Scale	Date	Classification	
Mapa Geologico de La Republica de El Salvador	C308-22.3, 277227	1:100,000	1978	U	

Administrative

Title	Call Number	Scale	Date	Classification	
Republica de El Salvador	C308-23.3, 267655	1:500,000	1978	U	
Mapa Oficial de La Republica	C308-23.3, 267239	1:200,000	1978	U	

Power

Title	Call Number	Scale	Date	Classification	
Comissiuon Ejecutiva del Rio Lemap	C308-24, 251049	1:1,025,000	1976	FOUO	
Mapa de Generacion y Transmision	C308-24, 256220	1:750,000	1976	C	
Mapa Oficial de La Republica de El Salvador Poblaciones con Servicio Electrico	C308-24, 250588	1:300,000	1976	U	
Lineas de Transmision	C308-24, 265628	1:200,000	1978	U	

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<u>Railroad</u>				
Title	Call Number	Scale	Date	Classification
Esquema Ferroviario Sectorizado	C308-25, 265629	1:500,000	1978	U

<u>Road</u>				
Title	Call Number	Scale	Date	Classification
El Salvador	C308-28, 264864	1:500,000	1976	U
El Salvador	C308-28, 277336	1:500,000	1979	U
Republica de El Salvador	C308-28, 258632	1:450,000	1976	U
Republica de El Salvador	C308-28, 249076	1:300,000	1976	U
Mapa Oficial de La Republica de El Salvador	C308-28, 264867	1:300,000	1978	U

<u>Telecommunications</u>				
Title	Call Number	Scale	Date	Classification
Exchange and Long Distance Network	C308-29, 263391	1:700,000	1977	FOUO
Red Nacional	C308-29, 252196	NS	1975	U

<u>Vegetation</u>				
Title	Call Number	Scale	Date	Classification
Planeacion Agraria Y de El Salvador	C308-33, 180590	1:715,000	1965	U
Mapa Ecologico de El Salvador Sistema de Zonas	C308-33, 267238	1:300,000	1978	U

<u>Water Supply</u>				
Title	Call Number	Scale	Date	Classification
Cel Proyecto Cerron Grande	C308-34, 219890	1:65,000	1972	FOUO

Hydrographic Charts

DMAHTC charts provide coverage between 1:10,000 & 1:707,000 scales dated 10-79. (U)

Tactical Commander's Terrain Analysis (TACCTA)

TACCTAs are available on La Liberatad and San Salvador dated 1963-64. (S/NF)

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Post Reports

The NPIC Map Library maintains a file of the latest State Department Post Reports on American Embassies and other diplomatic missions worldwide. The most recent Post Report available on El Salvador is dated 1979. (U)

Embassy Maps

As a result of the American Embassy takeover in Iran, and associated map requests in support of imagery exploitation requirements, the NPIC Map Library, maintains a file of selected American Embassy compounds and building floor plans. A map of the U.S. Embassy in San Salvador is contained in the file. (S)

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OUTLOOK: New Production

The DMA map production schedule for Central America, in particular El Salvador, was recently changed as a result of intelligence community priorities. Seven new 1:50,000 sheets of the El Salvador/Honduras border were placed in production in FY-82, and should be completed by December 1983. The series identification is E753, El Salvador: 2257-I, 2258-I and II, 2356-I, 2357-IV and 2456-I and IV. Fifteen more 1:50,000 sheets have been scheduled for production in FY-83. (S/NF)

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